

EMYTRONNIENTAL PROTECTION

96 JUN 14 PM 3: 26

June 12, 1996 Project 310-058.5A

Ms. Susan Keach Oro Loma Sanitary District 2600 Grant Avenue San Lorenzo, California 94580

Re: Wastewater Discharge Permit 024 - May 1996 Sewer Report Unocal Service Station 5760
376 Lewelling Boulevard at Usher Street San Lorenzo, California

Dear Ms. Keach:

On behalf of Unocal Corporation, Pacific Environmental Group, Inc. (PACIFIC) is operating a groundwater extraction (GWE) and treatment system at the site referenced above. This letter transmits treatment system operational data for the period between April 5 and May 15, 1996 (Table 1). Operational parameters are summarized below.

Current System Status: Reporting Period:	System Down 4/5/96 - 5/15/96
Period Temperature:	70.6
Period pH reading:	6.86
Period Volume Discharged:	49,950 gallons
Total Volume Discharged:	132,534 gallons
Average Flow Rate::	0.9 gallon per minute

The GWE system was shut down following receipt of analytical results showing that some BTEX compounds exceeded the maximum limitation of 0.5 micrograms per liter ($\mu g/L$). The GWE system was re-started following carbon replacement of the secondary carbon vessel on March 25, 1995, and it's position was switched to primary. Following

continued reports of effluent exceedances, PACIFIC shut the GWE system down again in May and scheduled a second carbon replacement. The GWE system is scheduled to be reactivated during the week of June 10, 1996; effluent samples will be taken on a short TAT to confirm permit compliance.

The certified analytical report and chain-of-custody documentation for samples taken May 15, 1996 are included as Attachment A. Monthly analyses include chemical oxygen demand, pH, and total suspended solids, as well as total purgeable petroleum hydrocarbons (TPPH) as gasoline and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). If you have any questions regarding this project or require further information, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Suzanne McClurkin-Nelson

Staff Scientist

Attachments: Table 1 - Tre

Table 1 - Treatment System Metered Volume

Table 2 - Groundwater Treatment System Analytical Data

Attachment A - Certified Analytical Report and Chain-of-Custody

Documentation

c: Ms. Tina Berry, Unocal Corporation

Mr. Richard Hiett, Regional Water Quality Control Board - S.F. Bay Region

Ms. Amy Leech, Alameda County Health Care Services

Table 1 Treatment System Metered Volume

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street - San Lorenzo, California

Date Sampled	Sampled (gallons)		Flow Cumulative Meter System Net Discharge Volume To Date (gallons) (gallons)		Average Total System Discharge (gpd)		
10/18/95 a	76	0	0	N/A	N/A		
10/30/95	4,040	3,964	3,964	0.2	330		
11/30/95	7,751	3,711	7,675	0.1	120		
12/27/95	15,031	7,280	14,955	0.2	270		
01/22/96	19,350	4,319	19,274	0.1	166		
02/13/96	28,980	9,630	28,904	0.3	438		
03/11/96 b	82,320	53,340	82,244	1.4	1,976		
04/05/96	82, 6 60	340	82,584	0.01	14		
05/15/96 с	132,610	49,950	132,534	0.87	1,249		

gpm = Gallons per minute

gpd = Gallons per day

N/A = Not applicable or not available

- a. GWE continuous system operation began on October 18, 1995.
- b. GWE system found down 3/11/96; carbon chageout performed 3/25/96.
- c. GWE system shut down for carbon replacement of current primary.

Table 2 Groundwater Treatment System Analytical Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

						<u>Permit C</u>	ompliance Par	rameters
Date Sampled	TPPH (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Xylenes (μg/L)	COD (mg/L)	TSS (mg/L)	pH. (units)
Influent Sar	nples							
10/30/95	33,00	0 480	1,400	900	7,100	N/A	N/A	N/A
11/30/95	15,00	0 190	310	210	3,700	N/A	N/A	N/A
12/27/95	1,10	0 16	23	<2.0	300	N/A	N/A	N/A
02/13/96	ь 32,00	0 460	1,100	1,500	7,700	N/A	N/A	N/A
04/05/96	25,00	0 280	1,400	900	6,400	N/A	N/A	N/A
05/15/96	22,06	0 240	1,200	850	4,700	N/A	N/A	N/A
Effluent Sai	mples							
10/04/95	<5	0 <0.50	<0.50	<0.50	<0.50	<20	<1.0	8.69 a
10/30/95	<5	0 <0.50	<0.50	<0.50	<0.50	NS	NS	NS
11/30/95	<5	0 <0.50	<0.50	<0.50	<0.50	NS	NS	NS
12/27/95	<5	0 <0.50	<0.50	<0.50	<0.50	NS	NS	7.05 a
02/13/96	b <5	0 <0.50	<0.50	<0.50	<0.50	<20	9.0	683 a
04/05/96	с 8	3 <0.50	0.80	<0.50	2,0	<20	11	6.83 a
05/15/96	c <5	0 1.8	1.6	<0.50	5.8	≮20	12	6,86 a
ТРРН	= Total purge	able petroleum l	nydrocarbons	<u></u>				
COD	= Chemical or	xygen demand						
TSS	= Total suspe	nded solids						
µg/L	= Micrograms	per liter						
mg/L	= Milligrams	er liter						
N/A	= Not applica	ble						
NS	■ Not sample							
<	= Denotes an	y potential conc	entrations fell	below the sh	own detection	limit for the ar	nalysis.	

a. The pH reading was measured by field instruments, not by laboratory analysis.

b. GWE system was found down 1/17/96 and two pumps were pulled for repair and replaced 2/13/96.

c. Carbon replacement of primary on 3/25/96 (switched to secondary); new primary replaced in May.

ATTACHMENT A

CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: Effl Matrix: LIQUID

Analysis Method: 8015Mod/8020

Analyzed: 05/19/96 Reported: 05/21/96

Sampled: 05/15/96

Received: 05/16/96

Attention: Steve Clark

Lab Number: 9605B29-01

QC Batch Number: GC051996BTEX07A

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total)	50 0.50 0.50 0.50 0.50	1.6 N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 112



Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Claudia Hirotsu Project Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Steve Clark

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Received: 05/16/96

Lab Proj. ID: 9605B29

Reported: 05/21/96

LABORATORY NARRATIVE

No MTBE was detected above 40ppb in this sample.

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager

Page: 1

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Pacific Environmental Group

2025 Gateway Place, Suite 440 San Jose, CA 95110

Client Project ID:

310-058.5A / 5760, San Lorenzo

01

Matrix:

LIQUID

Attention: Steve Clark

Work Order #:

9605B29

Reported:

May 23, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes
			Benzene	
QC Batch#:	GC051996BTEX07A	GC051996BTEX07A	GC051996BTEX07A	GC051996BTEX07A
Analy, Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:		J. Heider	J. Heider	J. Heider
MS/MSD #:	960574810	960574810	960574810	960574810
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/19/96	5/19/96	5/19/96	5/19/96
Analyzed Date:	5/19/96	5/19/96	5/19/96	5/19/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 μg/L	10 µg/L	10 <i>µ</i> g/L	30 μg/L
Result:	8.7	8.6	8.8	26
MS % Recovery:	87	86	88	87
Dup. Result:	9.4	9.3	9.5	28
MSD % Recov.:	94	93	95	95
RPD:	7.7	7.8	7.7	8.4
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK051996	BLK051996	BLK051996	BLK051996
Prepared Date:	5/19/96	5/19/96	5/19/96	5/19/96
Analyzed Date:	5/19/96	5/19/96	5/19/96	5/19/96
Instrument I.D.#:	GCHP7	GCHP7 T	GCHP7	GCHP7
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 <i>µ</i> g/L
LCS Result:	9.4	9.3	9.5	28
LCS % Recov.:	94	93	95	94
MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

MS/MSD 60-140 60-140 60-140 60-140 60-140 LCS 70-130 70-130 70-130 70-130 70-130	110/1105					
LCS 70-130 70-130 70-130 70-130	MS/MSD	60-140	60-140	60-140	60-140	
Control Limits	LCS	70-130	70-130	70-130	· · ·	
	Control Limits				7.5	•

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents. preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Claudia Hirotsu

Project Manager

SEQUOIA ANALYTICAL

** MS= Matrix Spike, MSD= MS Duplicate, RPD=Relative % Difference

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13 East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

Ci. 15055 S.W. Sequora Provy, Suite 110 * Porsano, OR: 97222 * (503) 624-9800

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MAY 31 1996

2025 Gateway Place, Suite 440 San Jose, CA 95110

Attention:

Client Proj. ID:

Lab Proj. ID: 9605B18

310-058.5A/5760,San Lorenzo

Sampled: 05/15/96 Received: 05/16/96

Analyzed: see below

Reported: 05/29/96

Steve Clark

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9605B18-02 Sample Desc : LIQUID,EffI	·			
Chemical Oxygen Demand Total Suspended Solids	mg/L mg/L	. 05/21/96 05/20/96	20 1.0	N.D. 12

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Claudia Hirotsu Project Manager



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FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

310-058.5A/5760,San Lorenzo Client Proj. ID:

Sampled: 05/15/96

San Jose, CA 95110

Sample Descript: Infl Matrix: LIQUID

Received: 05/16/96

Attention: Steve Clark

Analysis Method: 8015Mod/8020 Lab Number: 9605B18-01

Analyzed: 05/20/96 Reported: 05/29/96

QC Batch Number: GC052096BTEX03A

Instrument ID: GCHP3

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Det	Sam	pie Results ug/L	
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		50 50 50		22000 240 1200 850 4700 Gas
Surrogates Trifluorotoluene	Con 70	% Re	covery 85	

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -

Claudia Hirotsu Project Manager

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Steve Clark

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Received: 05/16/96

Lab Proj. ID: 9605B18

Reported: 05/29/96

LABORATORY NARRATIVE

No MTBE was detected above 40ppb in this sample.

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager

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Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A / 5760, San Lorenzo

Matrix:

LIQUID

San Jose, CA 95110 Attention: Steve Clark

Work Order #:

9605B18 01

Reported:

May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	F16 J	V 1	
Analyte.	Delizelie	roluerie	Ethyl	Xylenes	[
OC Batch#	GC052096BTEX03A	GC052096BTEX03A	Benzene	OOOKOOOOTTIVOO A	
Analy, Method:	EPA 8020	EPA 8020	GC052096BTEX03A	GC052096BTEX03A	i
Prep. Method:	EPA 5030	EPA 5030	EPA 8020 EPA 5030	EPA 8020	-
Trep. metrou.	Lr X 3030	EFA 5030	EPA 5030	EPA 5030	
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo	
MS/MSD #:	960590201	960590201	960590201	960590201	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	5/20/96	5/20/96	5/20/96	5/20/96	
Analyzed Date:	5/20/96	5/20/96	5/20/96	5/20/96	
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	
Conc. Spiked:	10 µg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	9.8	10	10	. 30	
MS % Recovery:	98	100	100	100	
,.		100	100	100	
Dup. Result:	9.8	9.9	10	30	
MSD % Recov.:	98	99	100	100	
RPD:	0.0	1.0	0.0	0.0	
RPD Limit:	0-25	0-25	0-25	0-25	
LCS #:	BLK052096	BLK052096	BLK052096	BLK052096	
Prepared Date:	5/20/96	5/20/96	5/20/96	5/20/96	
Analyzed Date:	5/20/96	5/20/96	5/20/96	5/20/96	
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	
Conc. Spiked:	10 µg/L	10 µg/L	10 μg/L	30 µg/L	
LCS Result:	9.9	9.9	10	30	
LCS % Recov.:	99	99	100	100	
			.00		
MS/MSD	60-140	60-140	60-140	60-140	
LCS	70-130	70-130	70-130	70-130	
Control Limits	, 0 100	10-130	70-130	70-130	
				<u></u>]

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference



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Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Project ID:

310-058.5A / 5760, San Lorenzo

02

Matrix:

Liquid

San Jose, CA 95110 Attention: Steve Clark

Work Order #:

9605B18

Reported:

May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte: Chemical Oxygen

Demand

QC Batch#: IN052196410400A Analy. Method: **EPA 410.4** Prep. Method: N.A.

Analyst: D. Lawrence MS/MSD #: 9605B4201 Sample Conc.: 21 Prepared Date: 5/21/96 Analyzed Date: 5/21/96 Instrument I.D.#: MANUAL Conc. Spiked: 100 mg/L

Result:

MS % Recovery: 89

Dup. Result: 120 MSD % Recov.: 99

> RPD: 8.7 RPD Limit: 0-20

> > LCS #:

LCS052196

110

Prepared Date: Analyzed Date: Instrument I.D.#:

5/21/96 5/21/96 MANUAL

Conc. Spiked:

100 mg/L

LCS Result:

99

LCS % Recov.:

99

MS/MSD LCS

75-125 80-120

Control Limits

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD=MS Duplicate, RPD = Relative % Difference



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Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Project ID: 310-058.5A / 5760, San Lorenzo

Matrix: -

LIQUID

San Jose, CA 95110 Attention: Steve Clark

Work Order #:

9605B18 02

Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte: Total Suspended

Solids

QC Batch: IN052096160200A Analy. Method: EPA 160.2 Prep Method: N.A.

Analyst:

D. Lawrence

Duplicate

Sample #:

9605B2401

Prepared Date: Analyzed Date:

5/20/96

5/20/96

Instrument I.D.#:

MANUAL

Sample

Concentration:

15

Dup. Sample

Concentration:

19

RPD:

24

RPD Limit:

0-20

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager

** RPD=Relative % Difference

UNOCAL 76

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Address: 2025 (SALEMAN (PL S	<u>= 44</u>	0		UNOCAL Project Manager: ADAD YSMANE											
City: ANJOS	State:	○ ₹		Zip Code:	95110	AFE#:											
Telephone: 409	441-7500	<u> </u>	FAX#:	441-	7539	Site #, 0	City, Sta	ate: 、	576	60	SAN	حا (<u> </u>	J70) (+		Client
Report Tox VEVEC	LARK			MADI		QC Dat	a:م	evel D) (Stand					evel B	•	Level A	
Turnaround 12/10-W	Vork Days 🗓 5 V	Vork Day	s 🗀 3 \	Nork Days		Drinking V				/ //	Analys						<u> </u>
Time: ☐ 2 Wo	ork Days 🗀 1 V	Vork Day	🗀 2-8	B Hours		Waste Wa			74. A	W.C.	/ /	/	dueste	701	/ /		. 211
CODE: Misc.	Detect. 🔾 Eval	# Reme	d. 🗀 De	emol. 🗐 Cl			A		OF THE	34			90	351	260		
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type,	Laborato	4			7) /2/		//				Y 18 /	<u></u>	
1. INPL	5,596/1215	lyster	3	INVIK	Sample	<u>" </u>		<u>// /)</u>	<u> </u>	_	$\overline{}$		<u> </u>		_	Comments	
2. GCFL	1/1210	1	3	VAIKI	2	$\frac{1}{2}$											Laboratory
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Relinquished By:	Desung	<u></u>	Date:	5/16/96	Time:/02	S Rece	ived By	ر. لمسكلهذا	le "	1118	D.F)	15//	71 6	1	1025	White
Relinquished By: 🗸	1 10 mi an	let	Date;	5/14/96	Time: 1/4	(7) Rece	ived By	/ Lab:	Much	Me	ichum	Da	ate 5		Time:		
Were Samples Receive	ed in Good Condit	ion? 🗀 Ye	es 🗆 No		mples on Ice								410.			e Zof Z	
To be completed upon 1) Were the analy 2) Was the report	ses requested on issued within the	requeste	a tumare	lody report	ted? 🖸 Yes I	JNo If no o If no, wi	o, what	analy:	ses are	e still r und tin	needed	?					
Approved by:			S	ignature:			+	Compa	any:	· · · · · · · · · · · · · · · · · · ·					_ Da	te:	1